

Figure 1
SEQ ID NO:1

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GCTGTGCCACGTGCCCTGGGTACCTCCTCAGATGTGGACTTGGCCCTGAGCATCCT
TCCACCAGGCCCTGCCCTGGTACCATCGAGAAATGCCGCCCTTGTGTCAGTGACA
GCGCAGAGGCAGCTCCGCTACCGAGATCATCTCTGGTCACCCGAGTTCCAGACCAC
TTCTCTTCCAGCTCATGGGAACCACAGAAGCTACACTAAGGATGGAAATGTGGACG
TGAGGGATGAATGGCAGGATGAGGATCTGCCAGACCGCTCCAGAAGACACGGGGTGG
AGCGGCTGGGTGGCGAGTGAAGACTCCTCCTCACCTCCCTCACCCCTGAACTTGAGCG
GAGCACATCGAAAGAGAAAGACGCTGGTGGCTCAGAGATCAACATCTCCCTGGACCAAA
GCGAGGGCTCTGCTGTCCGACGACTCCTCGACACACCTGATGACCTGGACATCAATG
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CTGGAGTTCTGGAAATGGCAATGAACCTGAGTGGGAAGATGACAC
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CCTCTTCCAGGTCAAAGAAAAGCCAGAGACTGTGGAAGAAGAGGACAGGGCAGCAGA
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GAGCAGGTTCTGACCTTCACAGTCTGGCTTGATGCCAAAGGTTGGATGTGG
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GCTTCTCTGTGGAATGTGACCCACTGTCCCCTCTCCCTGCCACCCAGGCAGGGTTGTGA
CTGCTGACCTCACATCTCCACCTGACATGCACTATTCTGCCATTGACTGTCTTGGGGG
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Figure 2
SEQ ID NO:2

MGTTEATLRMENVDVRDEWQDEDLP
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TAKNMPGDSADLFGDGSaedgsaANGRLWRTVIIGEQEHRIDLHMIRPYM
KVVTHGGYYGEGLNAIIVFAACFLPDSSSPDYHYIMENLFLYVISSLELL
VAEDYIMIVLNGATPRRRMPGIGWLKKCYHMIDRRLRKNLKSIIIVHPSW
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Figure 3
SEQ ID NO:3

1 ggcggccctc tgccagccct gagctggaa gaagcagcta cctcgaggc agggcgccg
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121 cctgcacccc acccaccctt gcacaaaaga gctggcgccc gctggccacg tcgcctctgg
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601 gggctccctgc tgcgtcgatga cttcttgat acccctgtat acctggatataaacgtggat
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781 ctatggggg acggcacgac ggaggacggc agcgcgcaca acggggcct gtggcgac
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961 tgcttccttc cagacagcag cctcccccac taccactaca tcatggagaa cctttctgt
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1381 ccccgccgg agtttgcgt gcccaggtct gaagagaagc cagaggtggc accagtggaa
1441 aacaggtctg ctctggctc agaagatcag gaaacaagca tgccttgagg cgacgtgagc
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1561 gccccagatc tcatccgtcc tcatcctgag tcccaatctt ccaaggggtgc cagccctcc
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1681 taacgatgca gtatttgcgt gttccagaaaa agggcccgac tctgagcccc tcacccttcc
1741 acactcacga actctcagcc gaggaaggca agaagcgcag ggggtggccc gcgtggcgtc
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2341 aggctcagaa actgctctg aaataggcag acctagcaag aggaagatac agggatcg
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2641 cgcctgtat cccagacttt gggaggccga ggcaggccga tcacctgagg tgaggagttt
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2761 ggcgtgggg caggtgcctg taatcccagc tacttgggag gctgaggcat gagaatcaact
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Figure 4
SEQ ID NO:4

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TVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMEN
LFLYVISSLELLVAEDYMIVYLNATPRRRMPGIGWLKKCYQMIDRRLRKNLKSIIIV
HPSWFIRTVAISRPFISVKFINKIQYVHSLEDLEQLIPMEHVQIPDCVLQYEEERLK
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Comparative Map of Human Chromosome 19p13.3 and mouse Chromosome 10: evidence for an inversion

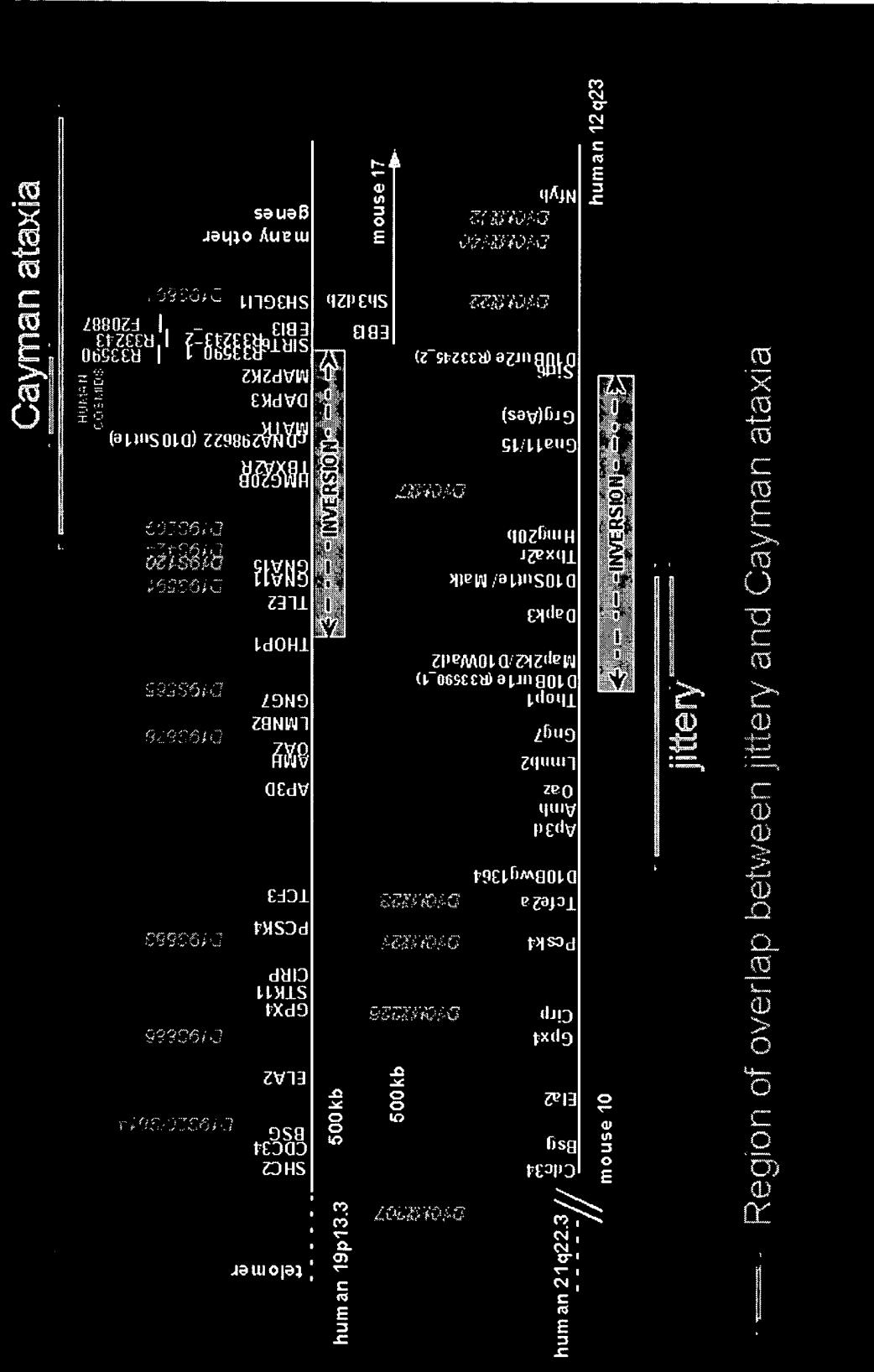


Figure 5

Figure 6

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2	Macaque	MGTTEATLRMENVDV	KEEWQDEDLPRPLPE	ETGVELLGSPEEDTS	SPPNTLNPGNGAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
3	muJittery	MGTTEATLRMENVDV	RDEWQDEDLPRPLPE	DTGVERLGGAVEDSS	SPSPSTLNLSGAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
4	huBNIP2	-----	-MEGVEL	KEEWQDEDLPRPLPE	DOSIEADILAITGPE	DQPGSLEVN-GNKVR	KKLMAPDISLTDPS
5	muNIP2	-----	-MEGVEL	KEEWQDEDLPRPLPE	DOSIEADILAITGPE	DQPGSLEVN-GNKVR	KKLMAPDISLTDPS

91		105 106	120 121	135 136	150 151	165 166	180
1	hukIAA1872	LDINWDDIETPDETD	SLEFLGNGNELEWED	DTPVATAKMPGDSA	DLFGDGTTEDGSAAN	GRLWRTVILGEQEH	IDLHMIRPMKVVTH
2	Macaque	LDINWDDIETPDETD	SLEFLGNGNELEWGD	DTPVATAKMPGDSA	DLFGDGTTEDGGAAN	GRLWRTVILGEQEH	IDLHMIRPMKVVTH
3	muJittery	LDINWDDIETPDETD	SLEFLGNGNELEWED	DTPVATAKMPGDSA	DLFGDGSAEDGSAAN	GRLWRTVILGEQEH	IDLHMIRPMKVVTH
4	huBNIP2	-----	-----	-----	DLPKPKTTEEVIRKGS	ITEYTAEEK-----ED	GRRWRMFRIGEQDHR
5	muNIP2	GEIIDLGLDTPSE	-----	-----	-----	DLPKPKTTEEVIRKGS	ITEYTAEEK-----ED
						GRRWRMFRIGEQDHR	-----
181		195 196	210 211	225 226	240 241	255 256	270
1	hukIAA1872	GGYGEGLNAAIVFA	ACFLPDSSLPYHYI	MENLFLYVSSLLELL	VAEDYMIYILINGATP	RRRMPGIGWLKKCYQ	MDRRLRKNLKSLII
2	Macaque	GGYGEGLNAAIVFA	ACFLPDSSLPYHYI	MENLFLYVSSLLELL	VAEDYMIYILINGATP	RRRMPGIGWLKKCYQ	MDRRLRKNLKSLII
3	muJittery	GGYGEGLNAAIVFA	ACFLPDSSSPDHYI	MENLFLYVSSLKLL	VAEDYMIYILINGATP	RRRMPGIGWLKKCYH	MDRRLRKNLKSLII
4	huBNIP2	GGYGDGLNAAIVFA	VCFMPESSQPNYRYL	MDNLFKVVIGTLELL	VAENYMIYILINGATT	RKRMPSLGLWLRKCYQ	QDRRLRKNLKSLII
5	muNIP2	GGYGDGLNAAIVFA	VCFMPESSQPNYRYL	MDNLFKVVIGTLELL	VAENYMIYILINGATT	RKRMPSLGLWLRKCYQ	QDRRLRKNLKSLII

271		285 286	300 301	315 316	330 331	345 346	360
1	hukIAA1872	VHPSWFIRTLLAISR	PFISVKFINKIQYVH	SLEDLEQLIPEHVQ	IPDCVLYQEERLKA	RRESARP-QPEFVLP	RSEEKPEVAPVENRS
2	Macaque	VHPSWFIRTLLAISR	PFISVKFINKIQYVH	SLEDLEQLIPEHVQ	IPDCVLYQEERLKA	RRESARP-QPEFVMP	RSEEKPEVAPVENRS
3	muJittery	VHPSWFIRTLLAISR	PFISVKFISKIQYVH	SLEFLERLIPMEHVQ	LPDCVLYQEERLRA	KRESTRPPQPEFLP	RSEEKPEVAPVENRS
4	huBNIP2	VHPSWFIRTLLAISR	PFISSKFSQKIRYVF	NLAELAELVPMEVYVG	IPECIKQVDCQELNGK	QDEPKNEQ-----	-----
5	muNIP2	VHPSWFIRTLLAISR	PFISSKFSQKIRYVF	NLAELAELVPMEVYVG	IPECIKQVDCQELNGK	QDEPKNEQ-----	-----

361		375					
1	hukIAA1872	ALVSEDQETSMS	371				
2	Macaque	APVTEDQETSMS	371				
3	muJittery	AEATEDQETSMS	372				
4	huBNIP2	-----	314				
5	muNIP2	-----	314				

Figure 7

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Table: Kyte & Doolittle
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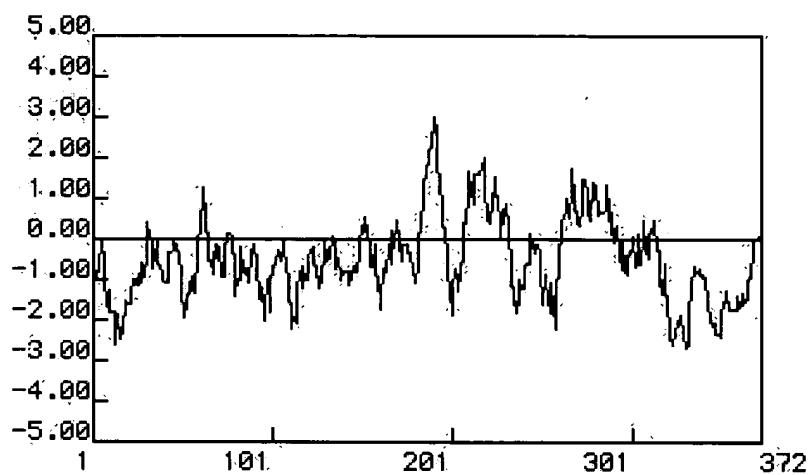


Figure 8
SEQ ID NO:8

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121 cctgcacccc acccaccctc gcacaaaaga gctggggggc gctggccacg tcgcctctgg
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421 gaggaatggc aggacgaaga tcttcccagg ccactcccgag aagagacggg ggtggactg
481 cttggcagcc cggtggaaga cacatccctc cctcccaaca cgctaaattt caacggagcg
541 catcgtaaga ggaagacgct ggtggccca gagatcaaca tttctctgga tcagagttag
601 gggtccctgc tgtccatga ctttctggat accctgtat acctggatataaacgtggat
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841 gtgatcatcg gggagcaaga gcaccgtata gacctgcaca tggatccggcc ttacatgaaa
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Figure 9
SEQ ID NO:9

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Figure 10
SEQ ID NO:10

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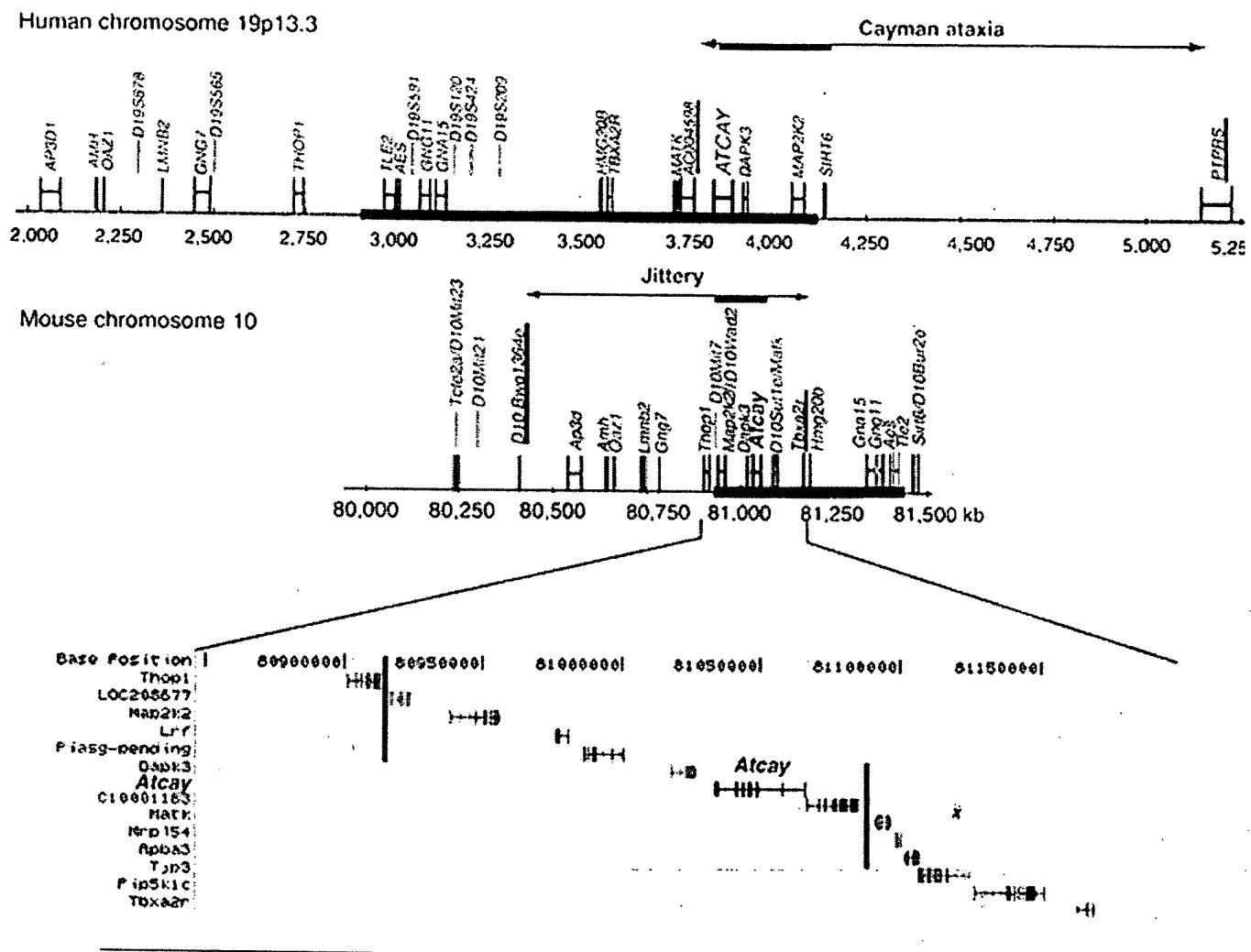
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cagccccat cctacttttgc gtctctggga gtctgaccc tctaggacc tcttaggaat
gatccacac aggatttgc cttttgttgc tgacgttgc cactgagcgt gacatcctca
agggtgcatcc acattgttagc ctgtgtcaga atgtcccttcc ttttcatggc tgaataat

tccattgcgt gaatggacca cattttgtca atccatttg ccatcaatgg acaattgggt
tgtttccacc ttttggctct tgtgaatagt catgttattt atatgtact cacctatgac
cgttagatgt acaaataatctc tgtaagaccc tactttcaat tctaattgagt atataacccaa
aagtggaaatt gctgataatt ctgtttttt gagaaccac catactgtt tttttgttt
tgctttgctt tgctttttt agacggagtc tcactctgtc acccaggctg gagtgcaagt
ggcgtatctt ggctcgctgc aacccccc tcccggttc aagcaactct cctgcctcag
cctcccgagt agctggact acaggccccc accaccacac ccagataatt ttttgttatt
tttagtagag atggggttt accatgttgg cctggcttgt ctcaaactcc ccacctcagc
ctccccaaat gctgggatta caggcgttag ccacgcacc cagcctgtt tttgttgtt
ttgtttgtt ggggttttc tgggtttttt ttttagacag agtctcaactc ttttgcttac
gctggAACgc aatggcgaa tctcggtca ccataatcctc cagttctac gttcaaggaa
ttctcggtcc tcagccccc gaatagctgg gattacaggg acctgcacc acgcccagct
aattttgttta ttttagtag agatagggtt tcaccatgtt ggccaggatg gtctcagtct
cctgaactca gtgatctgtcc cgcctcgccc tccaaagtt ctgggattat agcgtgagc
caccgtgtc agccaaannnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
nnnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
tgcataatgg ggcagggtgt ggtggctcat gcgtgtatc ccagcactt gggaggctga
ggccagagga tcgcttgagc ccaggagttt gaggctacaa gtgagttcat gccactgcac
tccagtcgg gctatgacag aatgagaacc tgcataaaaaaa aaagagaaga ggccgggcgc
ggtgggtcgc gcctgtatc ccagcactt gggaggccga ggtgggttga tcatgaggc
aggagtttga gaccagccag gccaacatag ggaaaccccg tctgtactaa aaatacaaaa
aattagctgg gctgtttagc aggtgcctgt aagtcccagc tactccggag gctgaggc
cagaatcaat caaacccgggg aggtggaggt tgcgtgagc caagatcgca ccactgcact
ccagcttggg cgacagtgc agactccatc tcaaaaaaaaaaaaaaaa aaaaaaaaaaagg
aagaagaaga agaagaaaaag aaagaaaaaa gagagctgt ttctctgtt gaaaaggaaa
gggatttccc caaaaagttat atctcagggg aaaggaagg tgcgtctgac atcttttct
ttcttcaga tacgaagagg aaagactgaa ggccaggagg gagaggtgt tgcaagatgg
tttctgttgg ggcctgggtcg gggcagccgg gggctgagct gaaatctcag ttagggcaac
ccggtgactt ctggcagca ggaccattt tcctgtgcag ggctcaagac gctgcccttc
tggcaaggac tttaaactca gacctgggtt caaataactgg ctcggcatt gagtgcaag
gtaacattaa gcaaaataaaa agctaacaac caccctggag gttattgtgc aagatgaggc
acccttggca aaaaagggtt agcacagact tcacgctcca taaagcataa aagtcaagac
ggcgccggg gctcaccctc cactttgaga ggctgtatc ccagcactt gggaggctga
ggcaggagga ttgtgtgagg tcaggagttt gagaacaacc tggacaacat ggctgtactc
cgtctctacc aaaaatacaa aaattagcca ggctgtgttgc tgcgtgcctg taatccac
tacttgggag gctgagccag gagaatcaact tgaacctggg aggcggaggt tgcaatgt
cgagatcatg ccactgcact ccagctggg tgacagagca agactctgtc tcaaaaaaaaa
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actgaatcgg gacgactgt tgagccctt aagttgaggc tgcaatgtc catgattgt
ccattgcact ccagccctgg caacagagca agatccgtc tcaaaaaaaaaaa aacaaaaaaaa
aaacagccctt tatcatgcca ggtccaatgc cagtttgcag ggaaacagag gcaaaataaga
cagagtctt gtcggcagaag ttttctcaaa tagcaaaggc agggaaacatc tcactgggtt
ggaaaacagg tcccaggggc caggaaaacc agagaggcca gtactagctg agagccacc
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ccccagccgg agtttgcgt gcccaggctt gaagagaagc cagagggtgc accagtggaa
aacaggtagg tgcgtgggg accatggcag gagagctgac agtcacgggaa ggctgcctac
tcccttgggg gaggcttagag aggaagatgg gtccttgcgtt agggacagaa aatggaaacta
agtggccggc catggctgtt cacccgttca atcccaacac tttggggaggc cgagggtggc
agatcacatg aggtcaggag ttgcagacca gcctggccag catggtaaaa cctcatct
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gaggccagg caggagattt gcttgaaccc agggggcaga ggttgcagtg agccgagata
gtaccactgc actcgccgac aaagtggac tccatctcaa aaaaataat aaacaaataa
aataaaaaata aaaaattatcg gcccgggtgt gtggctcactc cctgtatcc cagtagttt
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tcccacctac ttggaaaggct gaggcaggag aatcacttgc acctgggagg cgagggtgc
agtggccga gatcagacca ctgcactcca gcctggccgac agaatgagat tgcgtctcaa

aaataaataa ataaaataat atcatccagg tgggtgatg tacaccctta gtcaggctac
tcagaagggt gaggcaggca gatggcttga gcccaggagg tcaaggctac agcaagctat
gactgcactc cagctggc aacagagca gaccctgtct caaaaaaaaaa aaaaaagtt
tcatatgtt ctcattat cgcaatctca atgttatcat aatgtatgaaa ggtgaccc
gtccaggtcc cagcaggtag attcagactc ccccaatcca gtagaccctg agcaacatta
ttggcttcat tttatgttag tgaaggcct tggcaattt cctcaaaact gtcgtttgg
gtcttattgt tacgcagcag atgcacgctg acatctgttt tgtaccagat acagcagtgt
cggtcctcat agggcttaca gcctccacga acaggtagaa aatgccaag aatgggcact
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caggagttcg agaccaactt gggcaacata ttgagactcc atctctacaa aaagtttaaa
atgttagccag gcatgtatgt gtataccctt tagtcccagc tacttggag gctgaggtgg
gaggatca tggccccgg gctggaaact gcaactgagcc atgattgcac cactgccctc
cagctggc aacataacaa gaccctgtat cttttttttt ttttaagac agatttcac
tcttgcgc cagggccag agtgcataatgg tgcgtatctt gtcactgca acctccac
cccggttca agcgattctc ctgcctcagc ctcccgagta gctgggatta caggcaccca
ccaccacacc cggctaattt ttgttatttt agtagagaca gggtttacc atgttggcca
ggctggctc gaactcctga cctcaagtga tccaccacc tcagccccc aaagtgtgg
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aaataacgcc cagtctccgt ctctcccca cagtcctgtc ctggctcag aagatcagga
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ctgttattgt cagggcttc tagaaggaca gaaaatcaaa ccagctgca gcaaatataa
agcaggcagg gatcttaatc ccagggaaaac tgccccatga cttatcgga gtggggata
cggcaccggg aaggcaggga ggtgtgtt cccttaacca gtcaggccgt cttgcaccaa
ctccaggggg gcaccattac ctagaccagg atgaaatga gggccagag ttatgcagt
gagcggccct cagggaaaaa cccacacaga gccaagctcc ctgaagccca ghatatgata
ccacaaaagg gtagactgtc cacgctctgc ctccgattct ccacctggg ctggatgcca
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agaccccgctc cctaaaaaaa atacaaaaat tagccaggt agccaagatc gtaccactgc
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gcatggttt ttacagttaga agggtacagt taaaaatcag cagagtggg tgggtggct
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ggcaacagag caagactctg tttaaaaaaaa aaaaacaaaaaaa acttaacaaa
aggaagaggt gcatagggtt ggtccagga gagatgggtt ggaagctc aagtgtcc
tcccagtggg gttgtgttga cagcctttt ttctccacgc agggatgtt gcaaaaacac
acaaaagtgtc gccaactaga gaagctgacc caagccttc tagccagggt tttatagag
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taatcccagg agccaggaa ggaccaact tttctttaga atgtgtggg tttatccctt
accacacagt tttttgtt tttttgtt ttgtgtt gatggatggat gtcgtt
ctcgctctgtt cggccaggct ggagtgca ggcgtatct tggctactg caagctcc
ctcccgaggct cactccagtc tttgcctca gcctcccaag tagctggac tacaggcgtc
tgccaccaca cccagctaat tttttgtt ttttagtga gacgggggtt caccatgtt
gcccggatgg ttcgtatctc ctgacccctgt gatccaccccg cttcggccctc ccaaaagtgt

aggaagacgg ggtttctgag caggctttagt cctgcaggtt cctgtggagc caccggctgt
gacgggacac ctctgggtct cagcattgcc ctggggaggc tggacattt aggacatgg
tagggttta acattgttt cccaaatgtc aaatcccggg cacagggca agaccctgtc
ccgaattccc accccagtga atgggtgtcgc tgccaaagcc aacacaagat gacaaaagtg
gctgggtacg gtggctcacg cctataatcc cagcacttg ggagaccgag acaggtggat
cacctgaggt caggagttcg agaccaggtt ggccaaacatg gtgaaacccc atctctacta
aaaatacaaa aattagctgg gtgtgggtggc ggcacctgt agtcccagct actcaggagg
ctgaggtaga agaatagctg gaacccagga ggcagagatt gcagtcagcc gagattgcac
caactgcactc cagcctggga gacagagcaa gactgactca aaagaaaaaa aatgacagaa
gcctgattat cagactgccc ggaggagaca ggctccagca gatacatgcc agccaggccc
agctgccacg atttgcctaa ggtgaccaaa ggcacgcagc tccagcatga atcgttctaa
cccaacagtg acaagaactg ctgggcctta accgtcatgg aagactgggg ccgcctccaa
gtcacagaca ggagacgggg acagggaaaga actcattcca ccaatcga cacctaataa
ttgagtgtct acagcagcaa tcaagtgaca agtgaggccc tacctgaccc agaaggtgcc
tgccggctaa acattctgcc cccaccagaa actccagggg gtccgcccgt tatccgtgg
cccaccacg ccccttggta tcaccagcag tcacagacaa caggcagcgc aaactgaaga
ccccaaactca gccccagcgg accctccaga gcaaaagagg ccccccggcga ggcacctgt
cggcaggcat gcccgggtca aacagccggg gcccacgttc ccagctggc cacgacatgc
accgtccaca gatgggcttt gagatggatt tgtatcaggg tgggggggtgt ggtttggcca
aaatgcaatg gaccccgacc ctcctcgtaa aagatgtt gggttccct ctgtgacac
atgggatgcg tcataaaccct ccccccaaaag tcctggtcag cagcccatcc ttccaacgat
gagtttgcg gttttcaga acagaaatga tcactacgt tgacgacggt cgtatgtta
agacgtcgtc tccatgagct ttggggggac tttatgtgg aataaagaaa ctatcactg

Figure 12



1 ATCAY MGTTEATLRMENVDV KEEWQDEDLPRPLPE ETGVELLGSPVEDTS SPPNTLNFGNGAHRKR KTLVAPEINISLDQ
 2 ATCAY(Maca) MGTTEATLRMENVDV KEEWQDEDLPRPLPE ETGVELLGSPVEDTS SPPNTLNFGNGAHRKR KTLVAPDINISLDQ
 3 Atcay MGTTEATLRMENVDV RDEWQDEDLPRPLPE DTGVERLGGAVEDSS SPPSTLNLSGAHRKR KTLVAPEINISLDQ
 6 huKIAA0367 (N-term. end cut off!) EDVGMDIPE EEGV-LPSAADMMP EPPNSLDLNDTHPDR IKLTAPNINLSLDQ
 7 mu0367homo (N-term. end cut off!) MOIHF EEGV-LPSAADMMP EPPNSLDLNGSHPDR IKLTAPNINLSLDQ
 4 BNIP2 -----MEGVEL KEEWQDEDFFPIPLPE DDSIEADILAITGPE DQPGSLEV-NNKVR KKLMAPDISLTDP
 8 Bnip2 -----MEGVEL KEEWQDEDFFPIPLPE DDSIEADTLDGTDPP DQPGSLEV-NNKVR KKLMAPDISLTDP
 9 DrosCG11593 (N-term. end cut off - only C-terminal end aligned)

91 105 106 120 121 135 136 150 151 165
 1 ATCAY LDINVDDIETPDETD SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGTTEDGSAAN GRLWRTVIIGEQEH
 2 ATCAY(Maca) LDINVDDIETPDETD SLEFLGNNGNELEWGD DTPVATAKNMPGDSA DLFGDGTTENGGAAAN GRLWRTVIIGEQEH
 3 Atcay LDINVDDIETPDETD SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGSAEDGSAAN GRLWRTVIIGEQEH
 6 huKIAA0367 IDINVDELDTPDEAD SPEYTGH-----ED --PTAN-KOSGQES E SIPEYTAEEER--ED NRLWRTVVIGEQEH
 7 mu0367homo IDINVDELDTPDEAD SFRYTNH-----ED --PTAN-KSSGQES E SIPEYTAEEER--ED NRLWRTVVIGEQEH
 4 BNIP2 GEIDLDGLDTPSE-- -----NSNEFEWED DLPKPKTTEVIRKG- SITEYTAEEK--ED GRRWRFMFRIGEQDH
 8 Bnip2 GEVDLEGGLDTPSE-- -----NSNEFEWED DLPKPKTTEVIRKG- SITEYTAEEK--ED GRRNRMFRIGEQDH
 9 DrosCG11593 (N-term. end cut off - only C-terminal end aligned) YTAAEERR--D SRNWQKITLPDGRT

181 195 196 210 211 225 226 240 241 25
 1 ATCAY GGYYGEGLNNAIVFA ACFLPDSSLPDYHYI MENLFLYVISSLELL VAEDYMIVYLNGATP RRRMPGIGWLKKCY
 2 ATCAY(Maca) GGYYGEGLNNAIVFA ACFLPDSSLPDYHYI MENLFLYVISSLELL VAEDYMIVYLNGATP RRRMPGIGWLKKCY
 3 Atcay GGYYGEGLNNAIVFA ACFLPDSSSPDYHYI MENLFLYVISSLELL VAEDYMIVYLNGATP RRRMPGIGWLKKCY
 6 huKIAA0367 GGYYGEGLNNAIVFA ACFLPDSSSRADYHYV MENLFLYVISTLELM VAEDYMIVYLNGATP RRRMPGLGWMKKCY
 7 mu0367homo GGYYGEGLNNAIVFA ACFLPDSSSRADYHYV MENLFLYVISTLELM VAEDYMIVYLNGATP RRRMPGLGWMKKCY
 4 BNIP2 GGYYGEGLNNAIVFA VCFMPESQPNYRYL MDNLFKYVIGTLELL VAENYMIVYLNGATT RRKMPSLGWLRCY
 8 Bnip2 GGYYGEGLNNAIVFA VCFMPESQPNYRYL MDNLFKYVIGTLELL VAENYMIIYLNAGATT RRKMPSLGWLRCY
 9 DrosCG11593GGY GGQNAIVIFC ACHLPORSRARYSYV MDNLFLYVVKTLSQL VTDDYVLIYLHGGSN RRNVPPFPWLRCY

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271 285 286 300 301 315 316 330 331 34
 1 ATCAY VHPSWFIRTVLAISR PFISVKPINKIQYVH SLEDLEQLIPMEHQ IPDCVLYQEEERLKA RRESARP-QPEFVL
 2 ATCAY(Maca) VHPSWFIRTVLAISR PFISVKFINKIQYVH SLRDLLEQLIPMEHQ IPDCVLYQEEERLKA RRESARP-QPEFVM
 3 Atcay VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHQ LPDCVLYQEEQRLRA KRESTRPPQPEFLL
 6 huKIAA0367 VHPSWFIRTLAVTR PFISSKFKSSKIKYVN SLSELGLIPMDCIH IPESIIKLDDEELREA SEAAKTSCLYNDE
 7 mu0367homo VHPSWFIRTLAVTR PFISSKFKSSKIKYVT SLSELGLIPMDCIH IPESIIKLDDEELREA SEAAKTSCLYNDE
 4 BNIP2 VHPSWFIRTLAVTR PFISSKFSQKIRYVF NLAEELAELVPMEYVG IPEC-IKQVQELNGK ---QDE-----
 8 Bnip2 VHPSWFIRTLAVTR PFISSKFSQKIRYVF NLAEELAELVPMEYVG IPEC-IKQYEEEIKPK KRVDQEPLNGKQEP
 9 DrosCG11593VHPTFWIKSLVWMAR PFVSTKFWRKLVYVK SLEELGMHVVVEKAA IPEKVKQYD--AKRH
 361 375

1 ATCAY ALVSEDQETSMS human 19p13.3
 2 ATCAY(Maca) APVTEDQETSMS --
 3 Atcay AEATEDQETSMS mouse 10
 6 huKIAA0367 ----- human 9q21
 7 mu0367homo ----- mouse 19 - 66 Mb
 4 BNIP2 ----- human 15q22
 8 Bnip2 ----- mouse 9 - 70 Mb

Figure 13

Figure 14

Genotypes

	10n	35	25	31	15	39	37	17	28	21	18
D18S424	88	18	28	28	84	88	88	88	88	84	43
D18S209	22	22	32	32	21	22	22	22	22	23	31
A002R35	22	22	22	22	22	22	22	22	22	21	12
A008X33	11	11	11	11	11	11	11	11	11	12	22
21844ata	55	55	15	15	55	55	55	55	55	55	13
HIBx4	11	11	11	11	11	11	11	11	11	11	12
4K17CA1	11	11	11	11	11	11	11	11	11	11	36
A004M07	22	22	22	22	22	22	22	22	22	22	12
SH3GL1x3b	11	11	11	11	11	11	11	11	11	11	22
D18S894	44	44	44	44	44	44	44	44	44	44	46
16492ec1	22	22	22	22	22	22	22	22	22	22	11
33083CA	11	11	11	11	11	11	11	11	11	11	33
D18S216	33	33	33	33	33	33	33	33	33	33	25
16601GT	11	11	11	11	11	11	11	11	11	11	36
PTPRSx7	:	:	:	:	:	:	:	22	12	22	11
31846ATA	33	33	33	33	33	33	33	33	33	33	14
34296GT	22	22	22	22	22	22	22	22	22	22	23
GATA66B01 [*]	44	44	44	44	44	44	44	44	44	42	25
UT1057	33	33	33	33	33	33	33	33	33	35	46
D18S534	11	11	11	11	11	11	11	11	13	13	32

Figure 15**Table 2**

Marker	Forward	Reverse	Alleles	Size
21944ata	ctggaaactacaggaatgtacc	tttctgctctgcttcacgg	5	411
4k17ca	tgtgttcacacctactac	aaagaccaaagtctggcag	6	225
31646ata	aaatgcacatcgtgccttc	gatccatgtgacatgccac	4	210
16601gt	caccagtgcagagaatcctt	tctctggcgtgtgagagc	6	189
33083ca	atgacaaggcactccagcctga	agcttgcaatgtggcagat	3	206
16492ec1	gccgttgaatgtgcattgtt	agcaatataccgtcttcctg	2	187
PTPRSX7	gactccttagttgtctccct	cacacatagggacaaagag	2	266
A008X33	agacagagaatagacaaaaacacc	gatttgagaagatgtcagttt	2	160
A002R35	tggcttattttctcatc	cacttggatgtggactct	2	232
HIBx4	gcacgaaaacagactaatacgg	gttgcatttcagacctctcc	2	185
XRRC1ca1	ccgatggatctacagtgtca	tcttggatgagaaccaactc	6	159
ERRC1ca2	ttacaggagtggccaccat	aggactcacaatgtggtt	7	215
ERRC2ca6	ttgtactcaactgtgtccag	tagtaagccaagatcactccc	4	244
79129ca	ttagaaggccgtgtggAAC	ctgtgatttgtggagtgtgg	7	207
282485ca3	tagtccaggattggcaa	gaagacgttaacatgtccag	2	319
282485ca4	agccctaatactcgcttc	gcagggtgcagaataccctg	3	186
82621gt1	tctgctgttagtatcctcttc	gactatgaaggggagaagta	6	151